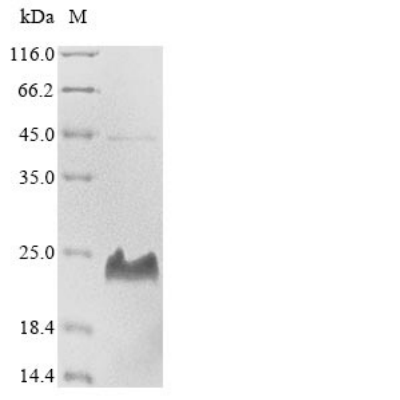
Recombinant Toxoplasma gondii Dense granule protein 3 (GRA3), partial

Product Code	CSB-EP467284TOV1
Abbreviation	Recombinant Toxoplasma gondii GRA3 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	B6KEU8
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Toxoplasma gondii
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	ADQPENHQALAEPVTGVGEAGVSPVNEAGESYSSATSGVQEATAPGAVLLDA IDAESDKVDNQAEGGERMKK
Research Area	Signal Transduction
Source	E.coli
Target Names	GRA3
Expression Region	43-114aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	10.8 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 43-114 constitute the expression domain of recombinant Toxoplasma gondii GRA3. The theoretical molecular weight of the GRA3 protein is 10.8 kDa. This GRA3 protein is produced using e.coli expression system. The GRA3 gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant GRA3 protein during the following stages.

Toxoplasma gondii dense granule protein 3 (GRA3) is a protein involved in the early stages of infection and is believed to play a role in the modulation of the host cell environment. It may contribute to the formation and maintenance of the parasitophorous vacuole. GRA3 is recognized by the host immune system, leading to the production of antibodies during T. gondii infection. It is considered a potential target for vaccine development. The immune response against GRA3 is part of the host defense mechanism against T. gondii. Understanding the interaction between GRA3 and the host immune system provides insights into the pathogenesis of toxoplasmosis.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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